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AVERAGE AND PROBABILITY.

85. Proposed by G. B. M. ZERR, A. M., Ph. D., Professor of Mathematics and Science, Chester High School, Chester, Pa.

Two points are taken at random in a circle and a chord drawn through them; a point is then taken at random in each segment. Find the average area of the quadrilateral formed by joining the four points.

86. Proposed by L. C. WALKER, Assistant Professor of Mathematics, Leland Stanford, Jr., University, Palo Alto, Cal.

Two points are taken at random in a circular annulus formed by two concentric circles. Find the chance that the straight line joining the points will not cut the inner variable circle.

97. Proposed by G. B. M. ZERR, A. M., Ph. D., Professor of Mathematics and Science, Chester High School, Chester, Pa.

Find the mean distance of a random point in a sphere from a point, (1) within, (2) without the sphere.

⁂ Solutions of these problems should be sent to B. F. Finkel not later than January 10.

EDITORIALS.

Prof. James Pierpont, of Yale University, was elected a member of the French Mathematical Society.

Dr. Artemas Martin, of the United States Coast and Geodetic Survey, at Washington, D. C., has recently been elected a member of the Deutsche Mathematiker-Vereinigung.

At the recent meeting of the Board of Trustees of the Indiana University, Dr. John B. Faught, Instructor in Mathematics, was given the title of Assistant Professor of Mathematics.

Prof. J. H. Tanner, of Cornell University, is writing an elementary algebra for the "Cornell Series," and Prof. James McMahon is writing an elementary geometry for the same series.

We are pleased to state that Dr. Halsted is receiving many congratulatory letters from readers of the MONTHLY who are reading with interest and profit, his contributions to the MONTHLY in Non-Euclidean Geometry.

Through the kindness of Dr. Alexander Macfarlane, we have received for publication a paper on "The Theory of Mathematical Inference," by Prof. G. J. Stokes, of Queen's College, Cork, Ireland. This paper will appear in the January number, Vol. VII, of the MONTHLY.

A number of our readers have asked us to send them the July issue. In answer we will say, take the cover off the June number and you will then have a June-July number. Through error on the part of the printers the statement of a double number was omitted on the cover.